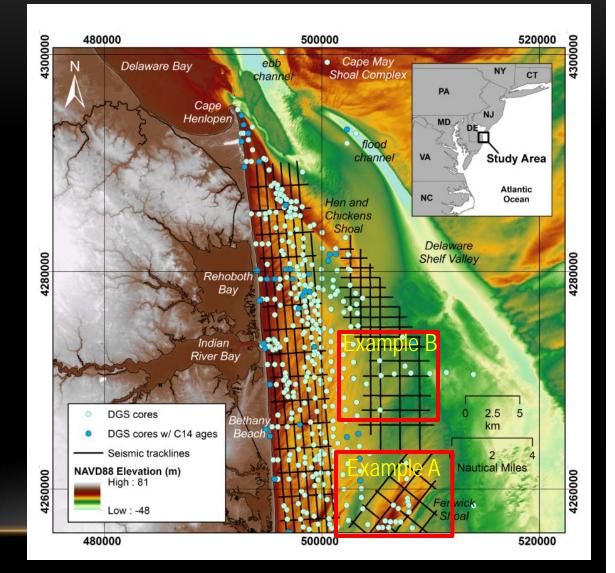
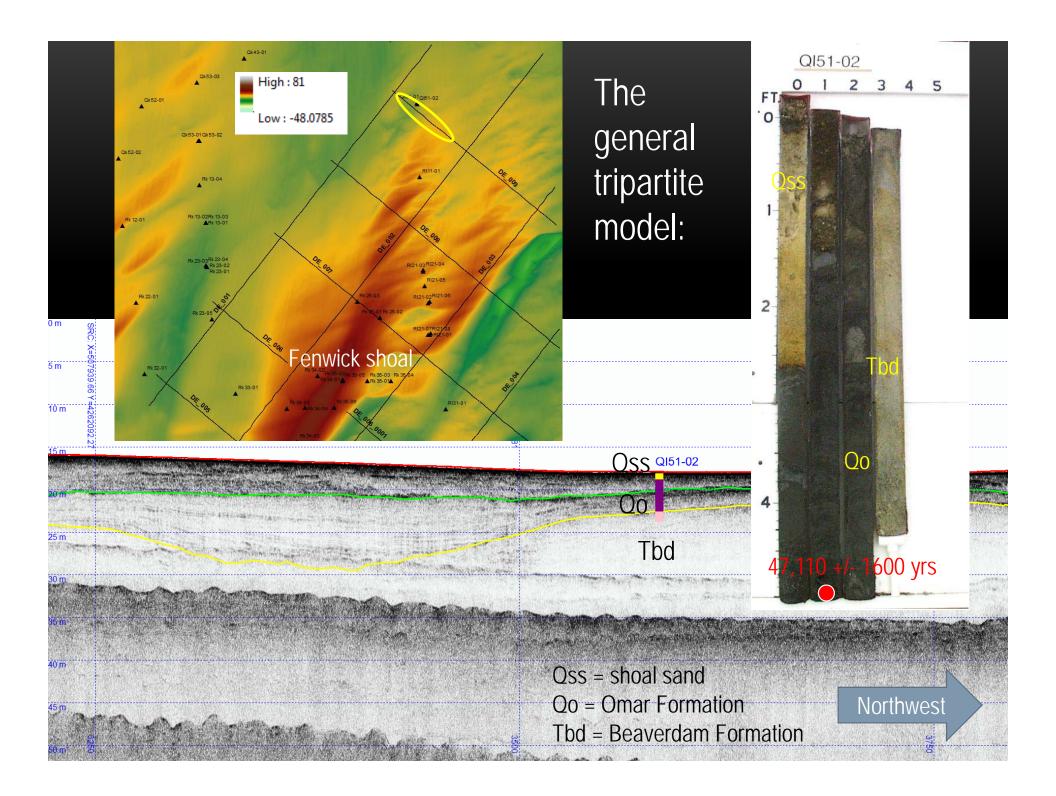


Robin Mattheus, Delaware Geological Survey

DATASET

- High-resolution 'chirper' datasets
 - 2013 DNREC
 - State waters
 - 2-10 kHz
 - ~300 km
 - 2015 BOEM
 - Federal waters
 - 0.7-12kHz
 - ~203 km
- Lithologic information
 - 419 Cores
 - Onshore and offshore geologic maps and crosssections





Pleistocene and/or older outcrops common between shoal bodies:

0 m

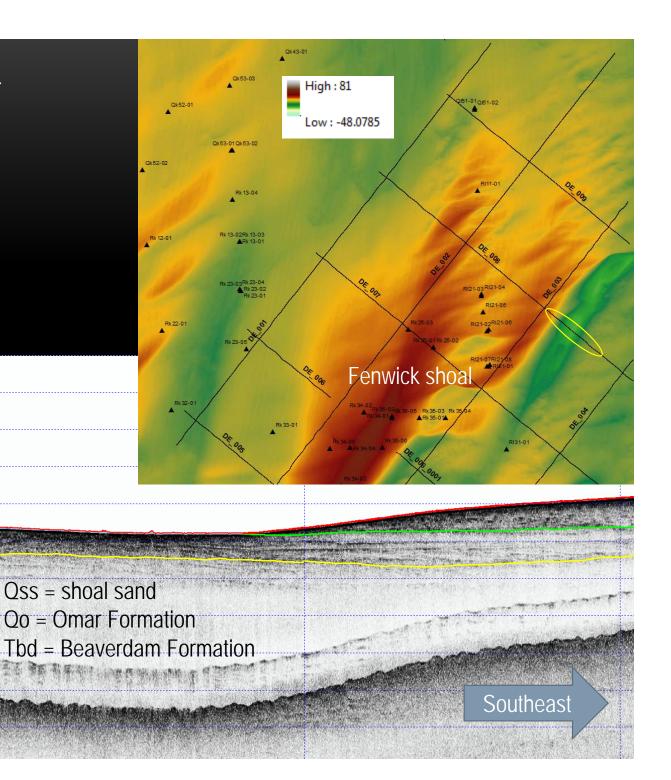
5 m

10 m

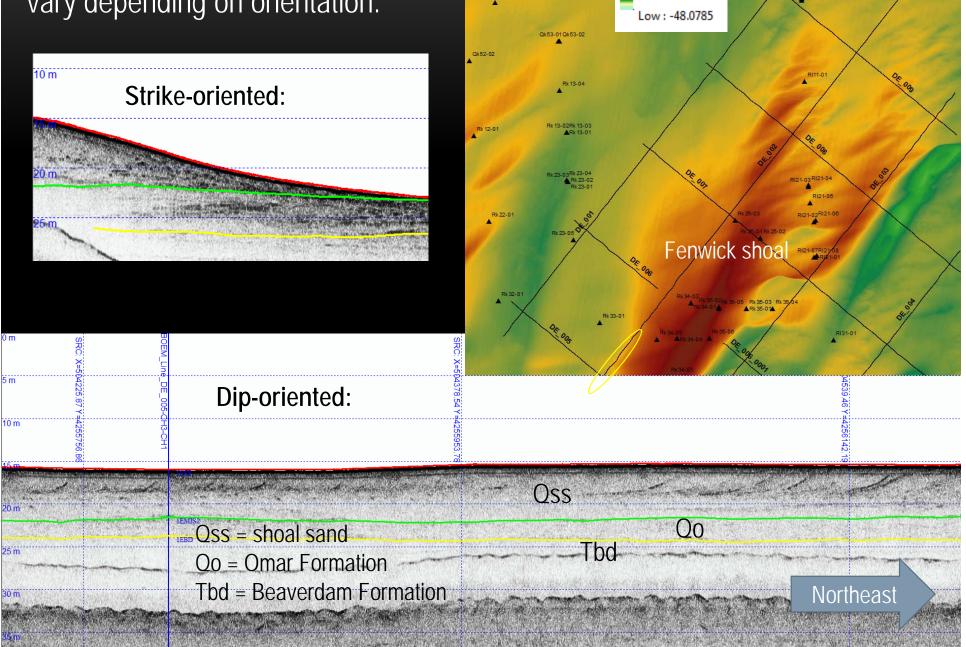
Qss

00

Tbd

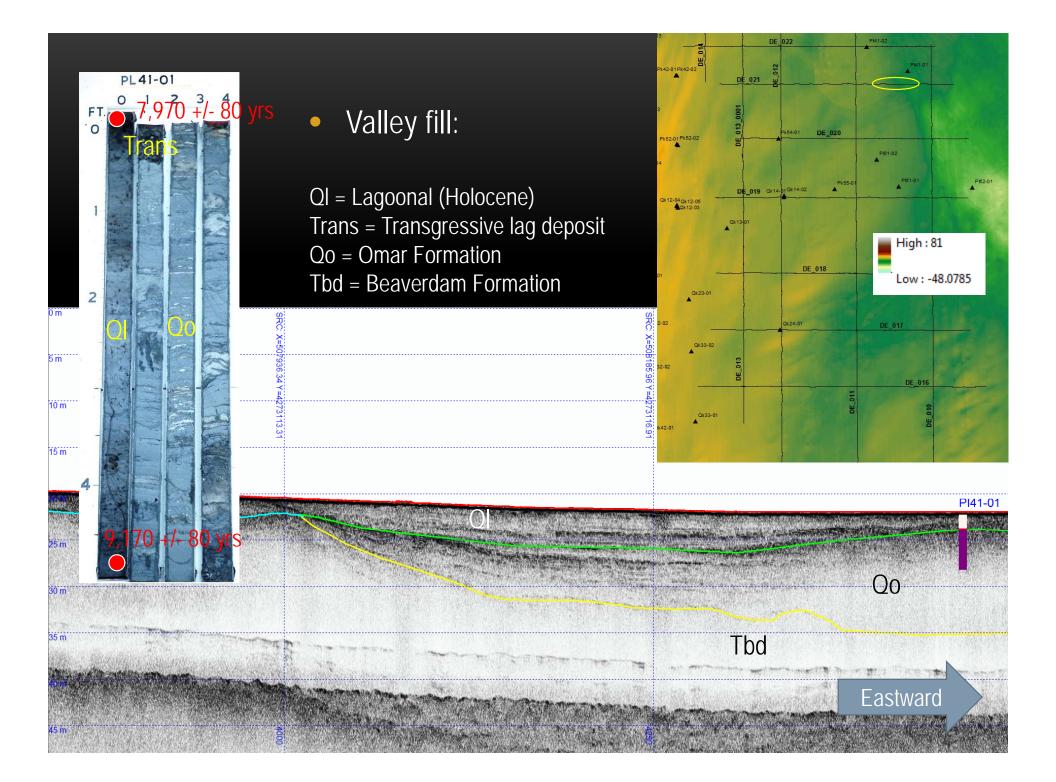


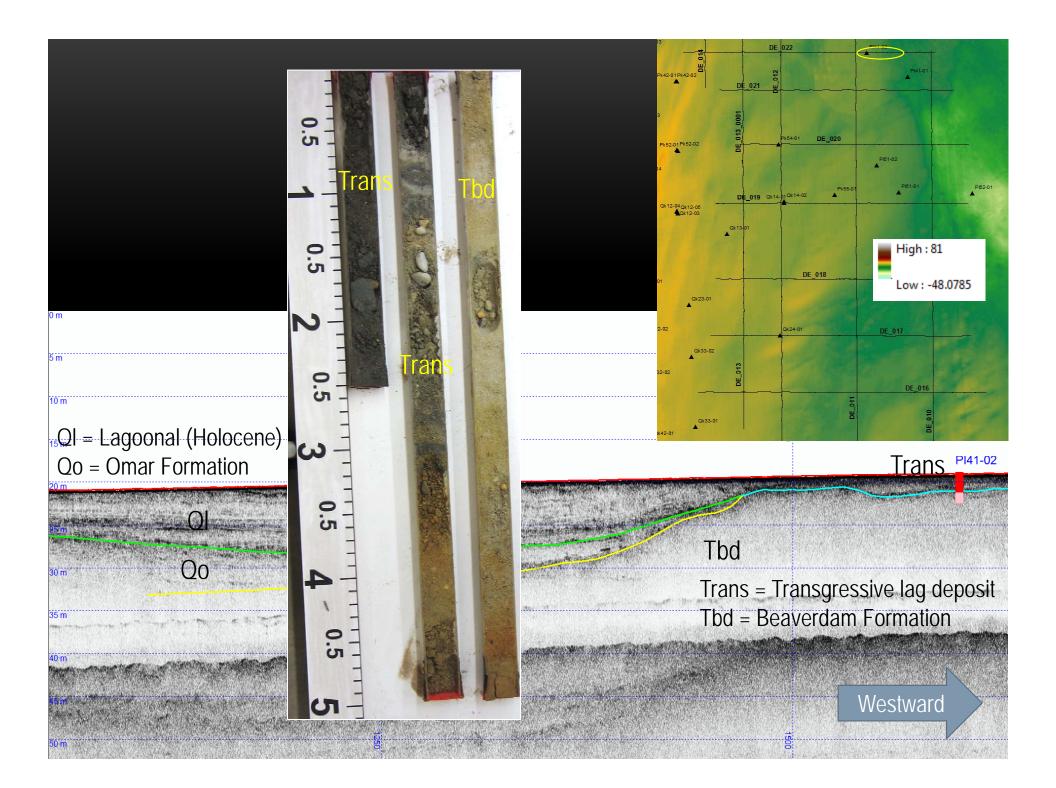
Internal reflection configurations vary depending on orientation:

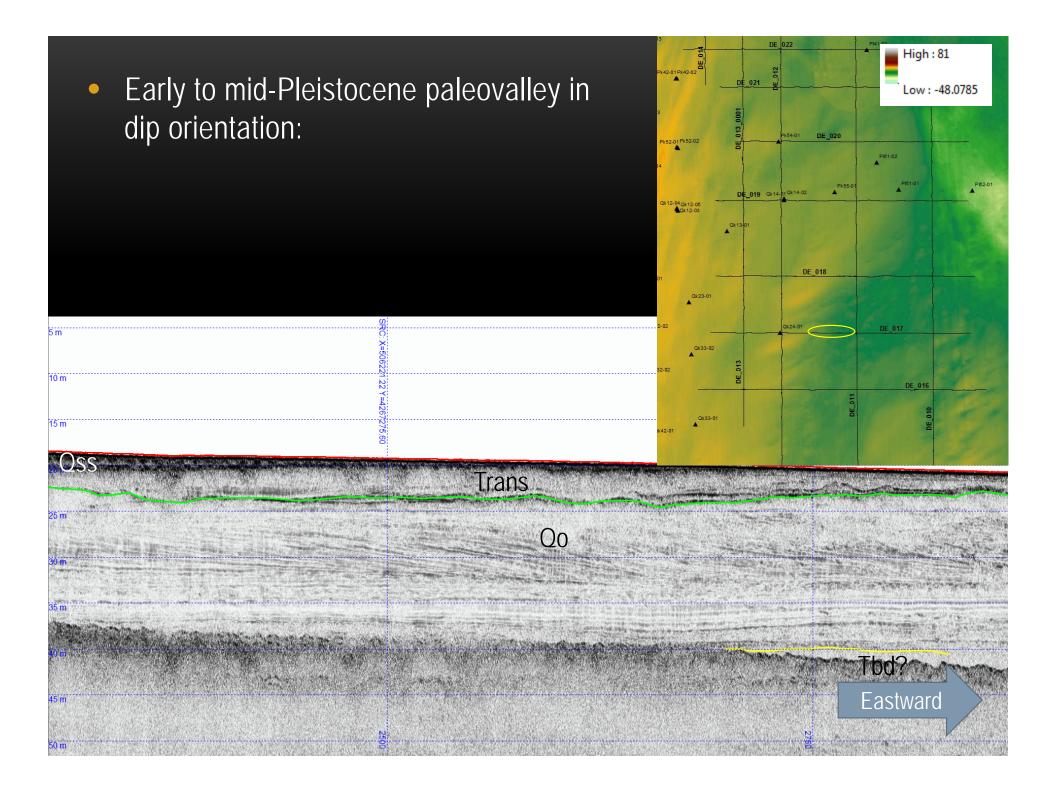


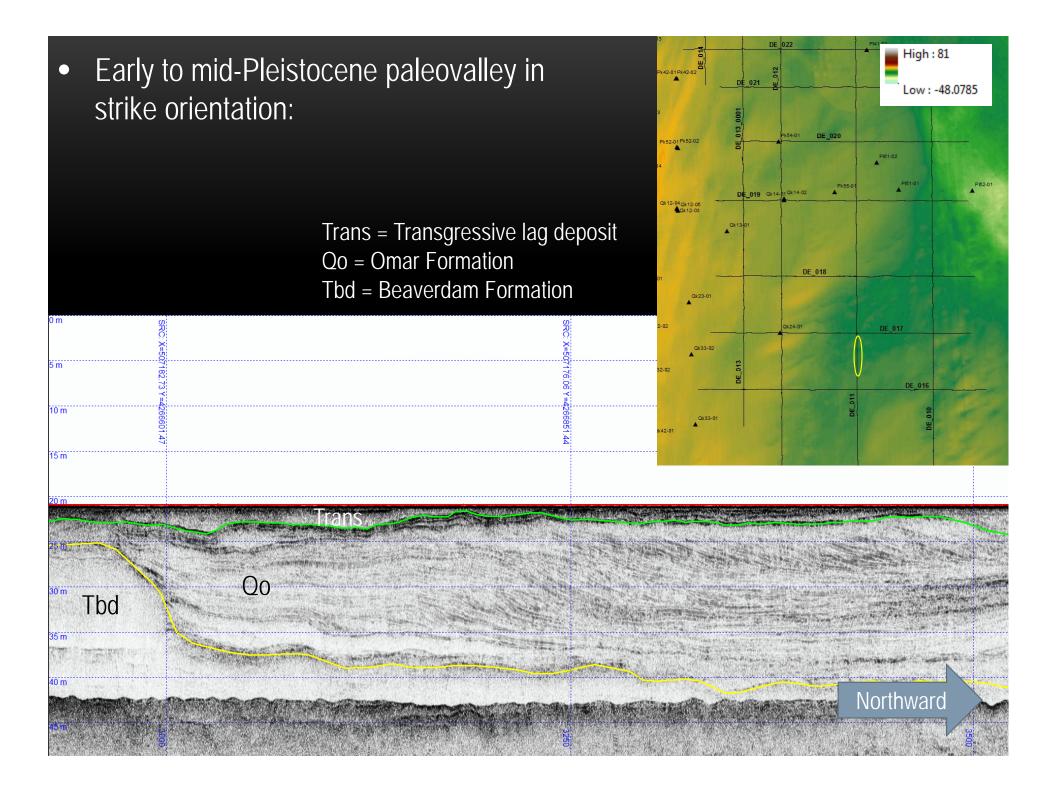
Ok43-0

High : 81

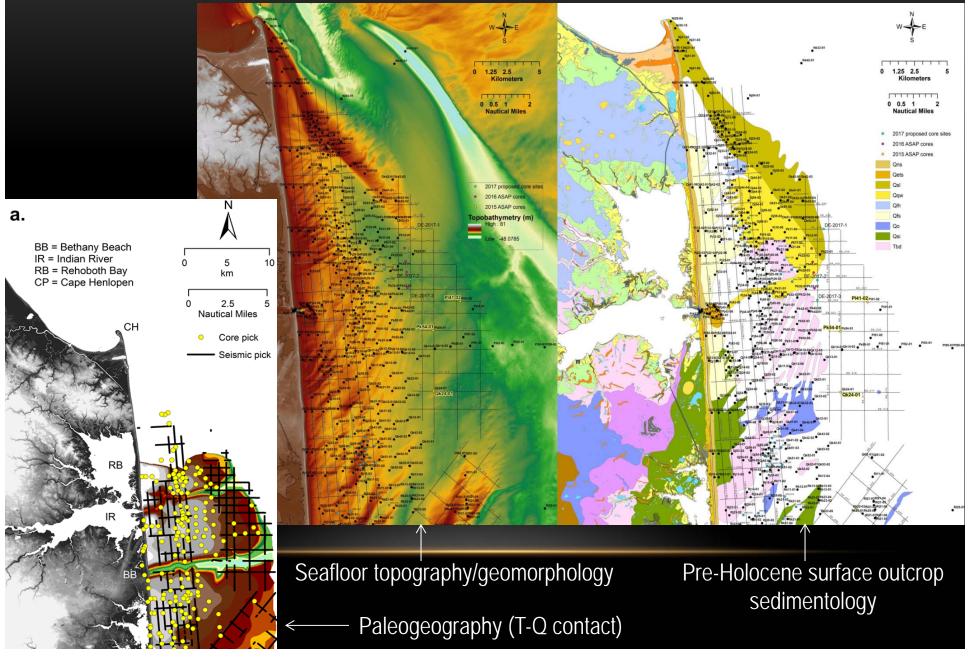








A work in progress: Surface geology map (outcropping Beaverdam, Omar, Sinepuxent, etc.) and paleogeographic maps (Tertiary-Quaternary contact, etc.)



SUMMARY

- Stratigraphic framework studies provide insight into surficial and subsurface sediment facies distributions.
- Seismic facies patterns can infer subsurface lithology in absence of core data.
- Shoal sands are sourced by the reworking of older shelf units.
- Continued mapping efforts are useful to target not only surficial sand resources, but potential subsurface ones as well.

